

Question Paper and Answer Keys for the post of Surveyor

Written Recruitment Examination for filling up of the post of Surveyor in APWD was held on 19/02/2023 from 2.30 pm to 4.30 pm at Port Blair. The Question Paper and the Answer Keys of the written examination received from the agency engaged for conduct of examination is hereby published. The candidates may submit their claims & objections if any, through email to ceapwd.recruitment@gmail.com **on or before 6th March, 2023 at 5.00 pm.**

No claims & objections will be entertained beyond the date & time mentioned above.

Date of Exam : 19.02.2023

ANSWER KEY FOR SURVEYOR

Q.No	Key	Q.No	Key	Q.No	Key	Q.No	Key
1	A	26	B	51	C	76	D
2	B	27	D	52	B	77	A
3	A	28	B	53	A	78	C
4	D	29	D	54	B	79	D
5	A	30	A	55	C	80	B
6	D	31	D	56	D	81	D
7	D	32	B	57	C	82	D
8	B	33	D	58	B	83	D
9	C	34	D	59	C	84	A
10	A	35	A	60	A	85	B
11	C	36	D	61	B	86	A
12	A	37	B	62	A	87	B
13	D	38	B	63	C	88	D
14	D	39	D	64	B	89	B
15	C	40	C	65	C	90	A
16	A	41	B	66	B	91	A
17	B	42	B	67	A	92	B
18	A	43	B	68	B	93	A
19	C	44	B	69	B	94	C
20	A	45	A	70	A	95	B
21	B	46	A	71	A	96	B
22	B	47	C	72	D	97	B
23	A	48	B	73	A	98	A
24	C	49	B	74	B	99	C
25	A	50	B	75	A	100	C

13. Which of the following are not sources of errors? ()

- a) Instrumental
- b) Personal
- c) Natural
- d) Artificial

14. Which of the following is the sighting device? ()

- a) Compass
- b) Spirit level
- c) Plumbing fork
- d) Alidade

15. What instrument is used for centering the table? ()

- a) Compass
- b) Spirit level
- c) Plumbing fork
- d) Alidade

16. What is the size of a field book? ()

- a) 20 cm x 20 cm
- b) 25 cm x 20 cm
- c) 20 cm x 25 cm
- d) 25 cm x 25 cm

17. Identity the following symbol. ()



- a) Well
- b) Earthwork dam
- c) Boundary pillar
- d) Statue

18. Which branch of surveying is used to find the elevations of given points with respect to given or assumed datum? ()

- a) Levelling
- b) Contouring
- c) Traversing
- d) Plane table surveying

19. Turning point is also called _____ ()

- a) intermediate point
- b) level point
- c) change point
- d) end point

20. Which of the following is a personal error? ()

- a) mistakes in manipulation
- b) atmospheric refraction
- c) settlement of tripod or turning points
- d) wind vibrations

21. The formula for calculating R.L can be given as _____ ()

- a) H.I+F.S
- b) H.I-F.S
- c) H.I-B.S
- d) H.I+B.S

22. Two contour lines of different elevations unite to form one line only in the case of _____ ()

- a) Hills
- b) Vertical cliff
- c) Horizontal cliff
- d) Overhanging Cliff

23. Which the following is not a use of contour maps? ()

- a) Drawing of plan
- b) Determination of intervisibility between two points
- c) Tracing of contour gradient and location of route
- d) Calculation of reservoir capacity

24. _____ is the most precise instrument designed for the measurement of horizontal and vertical angles. ()

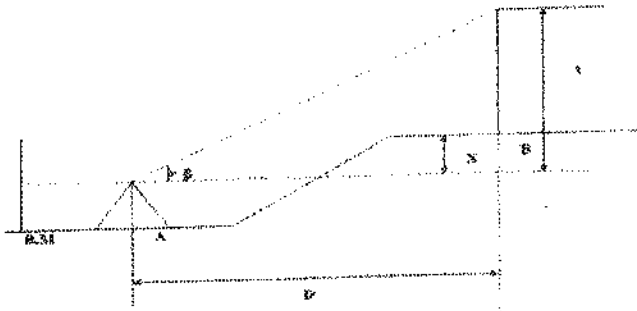
- a) Survey chain
- b) Dumpy level
- c) Theodolite
- d) Telescope

25. How many types do theodolites classified? ()

- a) 2
- b) 3
- c) 4
- d) 5

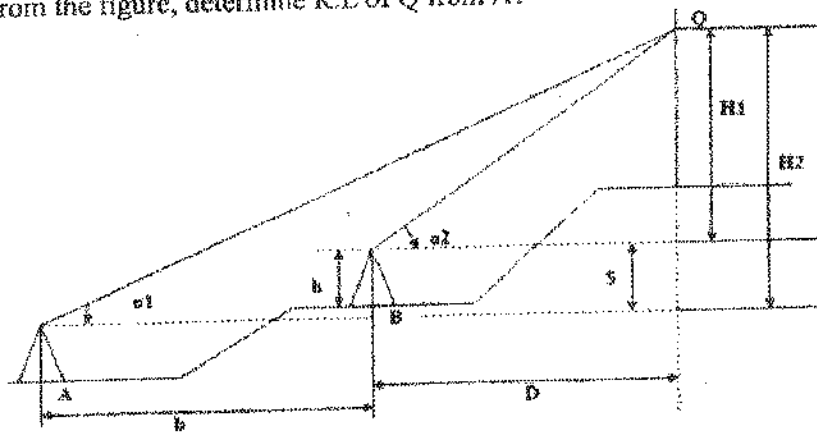
40. Which among the following scales is used to determine the original scale when the plan on the drawing sheet shrinks due to atmospheric conditions? ()
- a) Vernier scale
b) Plane scale
c) Shrunk scale
d) Diagonal scale
41. Chains are made up of _____ ()
- a) High steel carbon
b) Galvanized mild steel
c) Copper coated iron
d) Iron
42. The letter 'm' marked on the tallies refers to _____ ()
- a) Meter
b) Metric chain
c) Non Metric chain
d) Mild steel
43. One furlong is equal to _____ Gunter's chains. ()
- a) 1
b) 10
c) 66
d) 80
44. How many number of links are there in engineer's chain? ()
- a) 10
b) 100
c) 50
d) 66
45. Diameter of ring of arrow is _____ ()
- a) 50 mm
b) 25 mm
c) 30 mm
d) 25 mm
46. How many numbers of arrows are required for chain surveying? ()
- a) 10
b) 5
c) 15
d) 20
47. Marking the survey stations in soft ground is done by _____ ()
- a) Nails
b) Spikes
c) Wooden pegs
d) Butt rods
48. Which of the following type of surveying is used for exploring mineral wealth? ()
- a) Military surveying
b) Mine surveying
c) Topographic surveying
d) Engineering surveying
49. What is Surveying? ()
- a) Surveying is used to find the elevations of given points with respect to given or assumed datum
b) Surveying shows the relative positions of the objects on the surface of the earth
c) Surveying is to find the elevation of points having the same contour interval
d) All of the mentioned
50. Which of the following doesn't describe the use of hydrographic surveying? ()
- a) Nautical charts for navigation
b) Establishing mean sea level
c) Laying an Alignment
d) Making underground investigations
51. Which of the following type of surveying can be employed in a magnetic area? ()
- a) Compass surveying
b) Traverse surveying
c) Plane table surveying
d) Theodolite surveying
52. In case, to get a well-proportioned or well-shaped triangle, no angle should be less than _____ ()
- a) 15°
b) 30°
c) 45°
d) 25°

66. In which of the following transverse method angles are measured by theodolite? ()
- a) By fast needle
b) By direct observation of angles
c) By locating details with transit and tape
d) By free needle
67. Stadia method can also be known as ()
- a) Fixed hair method
b) Movable hair method
c) Subtense method
d) Tangential method
68. From the figure, the R.L. of B can be ()



- a) R.L. of B = R.L. of B.M. + H.I. + X + V
b) R.L. = R.L. of B.M. + H.I. + V - X
c) R.L. = R.L. of B.M. + V - X
d) R.L. = R.L. of B.M. + V + X

69. From the figure, determine R.L. of Q from A? ()



- a) R.L. = R.L. of A + h + H2
b) R.L. = R.L. of A + s + H1
c) R.L. = R.L. of A + s + H2
d) R.L. = R.L. of B + H1 + h

70. Which of the following can give the best output? ()
- a) Traversing
b) Intersection
c) Resection
d) Radiation
71. Which among the following methods of plane table is most commonly used? ()
- a) Intersection
b) Resection
c) Traversing
d) Radiation
72. Which among the following is more accurate in its output? ()
- a) Absolute positioning
b) Resection method
c) Modern GPS surveying
d) Conventional GPS method

85. Statement- "Buy pure and natural Oil of company HOL." – An ad. in a newspaper.

Assumptions- I. People do not mind paying more for pure and natural oil. ()

II. Artificial oil can be prepared.

A. If only assumption I is Implicit

B. If only assumption II is Implicit

C. If either I or II is Implicit

D. If neither I nor II is Implicit

E. If both I and II are implicit

86. Which of the following is the branch of Artificial Intelligence? ()

a) Machine Learning

b) Cyber forensics

c) Full-Stack Developer

d) Network Design

87. Public health depends on sufficient amounts of good quality _____ safe drinking _____ and adequate _____ ()

(A) Water, food and shelter

(B) Food, Water and Shelter

(C) Shelter, food and water

(D) Water, shelter and food

88. Which of the following machine requires input from the humans but can interpret the outputs themselves? ()

a) Actuators

b) Sensor

c) Agents

d) AI system

89. Statements: All purses are mobile. All mobile are phones. Some mobile are rings. No ring is purse. Which Conclusion is right? ()

(a) Some purse is ring.

(b) Some phones are purse

(c) No mobile is ring

(d) All rings are mobile.

90. A man starts walking towards Northeast diagonally from the left corner of a square plot and turns right after reaching the centre of the plot. After some distance, he again turns right and continues walking. Which direction is he facing now? ()

(a) South

(b) West

(c) East

(d) North

91. Agnimitra was the hero of Kalidasa's play _____ ()

(A) Malavikagnimitram

(B) Mega Dhutam

(C) Raghu vamsam

(D) Sakunthalam

92. The holy book of the Sikhs is _____ ()

(A) Mahabharatham

(B) Granth Sahib

(C) Gita

(D) Ramayanam

93. The Indus Valley, civilization had overseas trade contacts with _____ ()
(A) China (B) Spain (C) Egypt (D) Russia
94. Which of the following type of computer is mostly used for automatic operations?
a) analog b) digital c) hybrid d) remote
95. Which of the following is the first neural network computer? ()
a) AN b) SNARC c) RFD d) AM
96. Which of the following package allows individuals to use personal computers for storing and retrieving their personal information? ()
a) Graphics package b) Personal assistance package
c) Spreadsheet package d) Animation package
97. From the given alternative words, select the word which cannot be formed using the letters of the given word: CHRONOLOGICAL ()
a. CALL b. ANALOGY
c. CALICO d. LOGIC
98. As per 'August Offer 1940' the Constitution of India would be drawn by ()
A. Indians B. House of Lords
C. Princely States D. House of Commons
99. Square root of 0.9 is ()
A) 0.0300 B) 0.3300
C) 0.948 D) 0.8123
100. Logarithmic value of 1000 is ()
A) 1.000 B) 3.000
C) 2.000 D) 4.000
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